FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 290097.402D1	APPLICATION NO. 10/606,644
INFORMATION DISCLOSURE STATEMENT *(Use several sheets if necessary)*		APPLICANTS Michael W. Reed et al.	
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2,264,303	12/02/41	Dickey	260	205	
	AB	3,970,617	07/20/94	Bruno	260	152	
	AC	4,358,535	11/09/82	Falkow et al.	435	5	
	AD	4,868,105	09/19/89	Urdea et al.	435	6	
	AE	4,954,630	09/04/90	Klein et al.	544	102	
	AF	5,124,246	06/23/92	Urdea et al.	435	6	
	AG	5,210,015	05/11/93	Gelfand et al.	435	6	
	AH	5,304,645	04/19/94	Klein et al.	544	10.2	
	AI	5,326,679	07/05/94	Yanagisawa et al.	430	495	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	AJ	WO 90/14353	11/29/90	WIPO		
	AK	WO 92/10588	06/25/92	WIPO		
	AL	WO 96/17957	06/13/96	WIPO		
	AM	WO 97/39008	10/23/97	WIPO		
	AN	WO 99/40226	08/12/99	WIPO		

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	AO		"98 Catalogue", 1998 Amersham Pharmacia Biotech S-Hertogenbosch, Netherlands, pg. 127, FluoroBlue.
	AP		Asanuma et al., "Photo-Responsive Oligonucleotides Carrying Azobenzene in the Side-Chains," *Tetrahedron Letters 39*: 9015-9018, 1998.
	AQ		Baker et al., "Fluorescent Reagents. Acyl Chlorides and Acyl Hydrazides," *Journal of the Chemical Society*, pg. 170-173, 1950.
	AR		Bickett et al., "A High Throughput Fluorogenic Substrate for Stromelysin (MMP-3)," *Annals of the New York Academy of Science 732*: 351-355, 1994.

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	BA	5,328,824	07/12/94	Ward et al.	435	6	
	BB	5,451,463	09/19/95	Nelson et al.	428	402	
	BC	5,455,157	10/03/95	Hinzpeter et al.	435	6	
	BD	5,492,806	02/20/96	Drmanac et al.	435	5	
	BE	5,502,177	03/26/96	Matteucci et al.	536	26.6	
	BF	5,512,667	04/30/96	Reed et al.	536	24.31	
	BG	5,525,464	06/11/96	Drmanac et al.	435	6	
	BH	5,556,752	09/17/96	Lockhart et al.	435	6	
	BI	5,696,251	12/09/97	Arnold, Jr. et al.	536	23.1	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	BJ	WO 99/51621	10/14/99	WIPO		
	BK	WO 00/06771	02/10/00	WIPO		
	BL	WO 00/70685	11/23/00	WIPO		

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	BM	Boger et al., "Studies on the Total Synthesis of CC-1065: Preparation of a Synthetic Simplified 3-Carbamoyl-1,2-dihydro-3*H*-pyrrolo[3,2-*e*]indole Dimer/Trimer/Tetramer (CDPI Dimer/Trimer/Tetramer)...," *J. Org. Chem. 52*: 1521-1530, 1987.
	BN	Bolli et al., "Watson-Crick base-pairing properties of bicyclo-DNA," *Nucleic Acids Research 24*(23): 4660-4667, 1996.
	BO	Cantor et al., "Oligonucleotide Interactions. III. Circular Dichroism Studies of the Conformation of Deoxyoligonucleotides," *Biopolymers 9*: 1059-1077, 1970.
	BP	Cardullo et al., "Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer," *Proc. Natl. Acad. Sci. USA 85*: 8790-8794, December 1988.
	BQ	Demidov et al., "Kinetics and mechanism of polyamide ("peptide") nucleic acid binding to duplex DNA," *Proc. Natl. Acad. Sci. USA 92*: 2637-2641, March 1995.

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	CA	5,801,155	09/01/98	Kutyavin et al.	514	44	
	CB	5,824,796	10/20/98	Petrie et al.	536	26.7	
	CC	5,830,653	11/03/98	Froehler et al.	435	6	
	CD	5,846,726	12/08/98	Nadeau et al.	435	6	
	CE	5,876,930	03/02/99	Livak et al.	435	6	
	CF	5,942,610	08/24/99	Nelson et al.	536	25.32	
	CG	5,952,202	09/14/99	Aoyagi et al.	435	91.2	
	CH	6,007,992	12/28/99	Lin et al.	435	6	

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	CI		Du et al., "PhotochemCAD: A Computer-Aided Design and Research Tool in Photochemistry," *Photochemistry and Photobiology 68*(2): 141-142, 1998.
	CJ		Eisen and Brown, "DNA Arrays for Analysis of Gene Expression," *Methods in Enzymology 303*: 179-205, 1999.
	CK		Forchiassin and Russo, "An Efficient Synthesis of *trans*-Hexahydrochroman-7-one," *J. Heterocyclic Chem. 20*: 493-494, March/April 1983.
	CL		Freifelder, D., *Physical Biochemistry*, Second Edition, Freeman & Co., New York, "Hybridization Between Single-Stranded Polynucleotides," pp. 700-712, 1982.
	CM		Gamper et al., "Facile preparation of nuclease resistant 3' modified oligodeoxynucleotides," *Nucleic Acids Research 21*(1): 145-150, 1993.
	CN		Gamper et al., "Modulation of C^m/T, G/A, and G/T Triplex Stability by Conjugate Groups in the Presence and Absence of KCl," *Biochemistry 36*: 14816-14826, 1997.
	CO		Haugland, R.P., *Handbook of Fluorescent Probes and Research Chemicals*, Michelle Spence (ed.), 6th Edition, Molecular Probes, Eugene, OR, "Substates for Miscellaneous Enzymes," Chapter 10.5, pp. 235-236, 1996.
	CP		Hawthorne et al., "Evaluation of Some Fluorogenic Substrates for Continuous Assay of Aminopeptidase P," *Analytical Biochemistry 253*: 13-17, 1997.

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(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

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	DA	6,028,183	02/22/00	Lin et al.	536	22.1	
	DB	6,312,894	11/06/01	Hedgpeth et al.	435	6	

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	DC		Hirshberg et al., "Crystal Structure of Phosphate Binding Protein Labeled with a Coumarin Fluorophore, a Probe for Inorganic Phosphate," *Biochemistry 37*: 10381-10385, 1998.
	DD		Holland et al., "Detection of specific polymerase chain reaction product by utilizing the 5' ? 3' exonuclease activity of *Thermus aquaticus* DNA polymerase," *Proc. Natl. Acad. Sci. USA 88*: 7276-7280, August 1991.
	DE		Huang et al., "X-ray and ^{1}H NMR Studies of the Conformational Equilibria of 2-Z-3-Phenyl-1,3,2-oxazaphosphorinanes. Steric and Stereoelectronic Influences on the Unexpected Axial Preferences of Me_2N and MeNH Substituents on Three-Coordinate Phosphorus," *J. Org. Chem. 58*: 6235-6246, 1993.
	DF		Ibrahim et al., "The potential of 5' nuclease PCR for detecting a single-base polymorphism in *Orthopoxvirus*," *Molecular and Cellular Probes 11*: 143-147, 1997.
	DG		Innis and Gelfand, *PCR Protocols: A Guide to Methods and Applications*, Academic Press, San Diego, Innis et al. (eds.), "Optimization of PCRs," Chapter 1, pp. 3-27, 1990.
	DH		Lee et al., "Allelic discrimination by nick-translation PCR with fluorogenic probes," *Nucleic Acid Research 11*(16): 3761-3766, August 11, 1993.
	DI		Li and Glazer, "Design, Synthesis, and Spectroscopic Properties of Peptide-Bridged Fluorescence Energy-Transfer Cassettes," *Bioconjugate Chem. 10*: 241-245, 1999.
	DJ		Livak et al., "Oligonucleotides with Fluorescent Dyes at Opposite Ends Provide a Quenched Probe System Useful for Detecting PCR Product and Nucleic Acid Hybridization," *PCR Methods and Applications 4*: 357-362, 1995.
	DK		Lukhtanov et al., "Direct, Solid Phase Assembly of Dihydropyrroloindole Peptides with Conjugated Oligonucleotides," *Bioconjugate Chem. 7*: 564-567, 1996.
	DL		Matayoshi et al., "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," *Science 247*: 954-958, February 23, 1990.

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JL	EA		Mayfield and Corey, "Automated Synthesis of Peptide Nucleic Acids and Peptide Nucleic Acid-Peptide Conjugates," *Analytical Biochemistry 268*: 401-404, 1999.
	EB		Mayfield and Corey, "Enhancing Solid Phase Synthesis By a Noncovalent Protection Strategy-Efficient Coupling of Rhodamine to Resin-Bound Peptide Nucleic Acids," *Bioorganic & Medicinal Chemistry Letters 9*: 1419-1422, 1999.
	EC		Milesi et al., "Synthesis of Oligonucleotide Conjugates in Anhydrous Dimethyl Sulfoxide," *Methods in Enzymology 313*: 164-173, 1999.
	ED		Morrison, L.E., *Nonisotopic DNA Probe Techniques*, Kricka, L.J. (ed.), Academic Press, Inc., San Diego, "Detectoin of Energy Transfer and Fluorescence Quenching," Chapter 13, pp. 311-352, 1992.
	EE		Nazarenko et al., "A closed tube format for amplification and detection of DNA based on energy transfer," *Nucleic Acids Research 25*(12): 2516-2521, 1997.
	EF		Nielsen et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," *Science 254*: 1497-1500, December 6, 1991.
	EG		Petrie et al., "An Improved CPG Support for the Synthesis of 3' –Amine-Tailed Oligonucleotides," *Bioconjugate Chem. 3*: 85-87, 1992.
	EH		Pon and Yu, "Hydroquinone-*O*, *O*'-Diacetic acid ('Q-linker') as a replacement for succinyl and oxalyl linker arms in solid phase oligonucleotide synthesis," *Nucleic Acids Research 25*(18): 3629-3635, 1997.
	EI		Reed et al., "Acridine- and Cholesterol-Derivatized Solid Supports for Improved Synthesis of 3'-Modificd Oligonucleotides," *Bioconjugate Chem. 2*: 217-225, 1991.
	EJ		Rothman and Still, "A New Generation of Fluorescent Chemosensors Demonstrate Improved Analyte Detection Sensitivity and Photobleaching Resistance," *Bioorganic & Medicinal Chemistry Letters 9*: 509-512, 1999.
JL	EK		Seela et al., "8-AZA-7-Deazapurine DNA: Synthesis and Duplex Stability of Oligonucleotides Containing 7-Substituted Bases," *Nucleosides & Nucleotides 18*(6&7): 1399-1400, 1999.

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	FA		Seela et al., "Parallel-Stranded DNA Formed by New Base Pairs Related to the Isoguanine-Cytosine or Isocytosine-Guanine Motifs," *Nucleosides & Nucleotides 18*(6&7): 1543-1548, 1999.
	FB		Seela and Zulauf, "Synthesis of oligonucleotides containing pyrazolo[3,4-*d*]-pyrimidines: The influence of 7-substituted 8-aza-7-deazaadenines on the duplex structure and stability," *J. Chem. Soc. Perkin Trans. 1*: 479-488, 1999.
	FC		Sokol et al., "Real time detction of DNA-RNA hybridization in living cells," *Proc. Natl. Acad. Sci. 95*: 11538-11543, September 1998.
	FD		Tyagi et al., "Multicolor molecular beacons for allele discrimination," *Nature Biotechnology 16*: 49-53, January 1998.
	FE		Uhlmann et al., "PNA: Synthetic Polyamide Nucleic Acids with Unusual Binding Properties," *Angew. Chem. Int. Ed. 37*: 2796-2823, 1998.
	FF		Van Ness and Chen, "The use of oligodeoxynucleotide probes in chaotrope-based hybridization solutions," *Nucleic Acids Research 19*(19): 5143-5151, 1991.
	FG		Whitcombe et al., "Detection of PCR products using self-probing amplicons and fluorescence," *Nature Biotechnology 17*: 804-807, August 1999.
	FH		White et al. "A Continuous Fluorometric Assay for Leukotriene D_4 Hydrolase," *Analytical Biochemistry 268*: 245-251, 1999.
	FI		Wiegant et al., "Multiple and sensitive fluorescence in situ hybridization with rhodamine-, fluorescein-, and coumarin-labeled DNAs," *Cytogenet. Cell Genet. 63*: 73-76, 1993.
	FJ		Wittwer et al., "The LightCycler™: A Microvolume Multisample Fluorimeter with Rapid Temperature Control," *BioTechniques 22*(1): 176-181, 1997.
	FK		Young and Anderson, *Nucleic Acid Hybridisation*, Hames and Higgins (eds.), IRL Press, Oxford, England, "Quantitative Analysis of Solution Hybridisation," Chapter 3, pp. 47-111, 1985.

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	GA	6,531,581 B1	03/11/03	Nardone et al.	534	560	
	GB	6,485,901 B1	11/26/02	Gildea et al.	435	5	
	GC	6,465,644 B1	10/15/02	Yan et al.	544	99	
	GD	6,465,175 B2	10/15/02	Horn et al.	435	6	
	GE	6,448,407 B1	09/10/02	Lee et al.	546	283.1	
	GF	6,416,953 B1	07/09/02	Heller	435	6	
	GG	6,399,392 B1	06/04/02	Haugland et al.	436	172	
	GH	6,323,337 B1	11/27/01	Singer et al.	536	26.6	
	GI	6,117,986	09/12/00	Nardone et al.	534	727	

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	GJ	GB 1533121	11/22/78	Great Britain		
	GK	GB 1394368	05/14/75	Great Britain		
	GL	WO 99/64431	12/16/99	WIPO		
	GM	WO 97/29154	08/14/97	WIPO		

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	GN		Dawson, J.F., "The Structure and Properties of Disperse Dyes in Polyester Coloration," *JSDC 99*: 183-191, July/August 1983.
	GO		Heesemann, J., "Studies of Monolayers. 1. Surface Tension and Absorbtion Spectroscopic Measurements of Monolayers of Surface-Active Azo and Stilbene Dyes," *Journal of the American Chemical Society 102*(7): 2167-2176, March 26, 1980.
	GP		Keil, D. et al., "Preparation and UV/Vis Spectroscopic Characterization of *N,N*-Disubstituted 2-Amino-5-arylazoselenazoles and Some of Their Carbocyclic and Heterocyclic Analogues," *J. Prakt. Chem. 342*(2): 169-174, 2000.

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	HA	6,114,518	09/05/00	Pitner et al.	536	25.3	
	HB	5,272,259	12/21/93	Claussen et al.	534	689	
	HC	3,407,189	10/22/68	Merian	260	207.1	

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	HD					
	HE					
	HF					
	HG					
	HH					
	HI					

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	HJ		Lyttle, M.H. et al., "Alternatives to FRET: Design of Fluorescence-quenched Oligonucleotide Probes with Extremely High Signal/Noise Ratios," BIOSIS Database, Accession No. 2001:519181. See also Poster Session from *12th International Genome Sequencing and Analysis Conference*, Miami Beach, FL, September 12-15, 2000.
	HK		Sabnis, R. W. et al., "Synthesis and Application of 5-arylazothiophene Derivatives," *Bull. Chem. Soc. Jpn. 64*: 3768-3770, 1991.
	HL		Sijm, D.T.H.M. et al., "Aqueous solubility, octanol solubility, and octanol/water partition coefficient of nine hydrophobic dyes," *Environmental Toxicology and Chemistry 18*(6): 1109-1117, 1999.
	HM		Weaver and Shuttleworth, "Heterocyclic diazo componenets," *Dyes and Pigments 3*: 81-121, 1982.
	HN		
	HO		

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